

IN THE CLAIMS

Please cancel claims 8, 29, 30 and 34 without prejudice or disclaimer, and amend claims 1 thru 7, 9 thru 11, 13 thru 17, 19 thru 28, 31 thru 33 and 35 thru 38 as follows:

1 1. (Currently Amended) A security system, comprising:

2 a multichannel image processor for selectively receiving image signals transmitted
3 through a plurality of input channels, and for outputting the image signals; and

4 a computer ~~[[being]]~~ connected ~~[[with]]~~ to said multichannel image processor
5 through a communication interface, said computer having a multichannel image driver,
6 said computer inputting the image signals outputted from said multichannel image
7 processor;

8 the multichannel image driver controlling a selection of at least one of the input
9 channels in accordance with a selected set-up mode, supplying a main image display
10 window displaying the inputted image signals to a main frame of a display device,
11 supplying at least one manipulation key window displaying keys to the main frame of the
12 display device, processing in accordance with the selected set-up mode, performing at
13 least one ~~selected from among~~ of displaying the inputted image signals through the
14 display device in accordance with the selected set-up mode and recording the inputted
15 image signals in a memory in accordance with the selected set-up mode, the displayed
16 keys being used for selecting the selected set-up mode and other modes, ~~[[the]]~~ said main
17 image display window and ~~[[the]]~~ said at least one manipulation key window being

18 integrally displayed on the main frame of the display device;

19 said security system further comprising an alarm sensor for sensing an abnormality
20 of an object to be watched, said main controller transmitting received information of an
21 abnormality signal to the multichannel image driver when the abnormality signal is
22 transmitted, and operating an alarm channel selection mode corresponding to the
23 abnormality signal under control of the multichannel image driver.

1 2. (Currently Amended) The security system of claim 1, said multichannel
2 image processor comprising:

3 a plurality of memories for storing signals ~~[[input]]~~ inputted through the plurality
4 of input channels, respectively;

5 a memory controller for selectively outputting the signals stored in the plurality of
6 memories;

7 a coding unit for coding the signals ~~output~~ outputted from the plurality of
8 memories, and for transmitting the coded signals to said computer; and

9 a main controller for controlling said memory controller in accordance with a
10 control signal transmitted from said computer.

1 3. (Currently Amended) The security system of claim 2, said multichannel
2 image processor further comprising:

3 a plurality of analog-to-digital converters, each being disposed ~~respectively~~

4 between [[each]] a respective one of the plurality of input channels and [[each]] a
5 respective one of the plurality of memories, for converting the input signals into digital
6 signals.

1 4. (Currently Amended) The security system of claim 3, said multichannel
2 image processor further comprising a multiplexer for multiplexing the signals [[input]]
3 inputted through the plurality of input channels, and for outputting the multiplexed
4 signals via a terminal for an external ~~displayer~~ display unit.

1 5. (Currently Amended) The security system of claim 3, said multichannel
2 image processor further comprising an RS-232 interface module [[being]] connected
3 [[with]] to said main controller and ~~communicating~~ carrying out data communication
4 with said computer.

1 6. (Currently Amended) The security system of claim 5, said multichannel
2 image processor further comprising an RS-485 interface module [[being]] connected
3 [[with]] to said main controller and ~~communicating~~ carrying out data communication
4 with apparatuses connected to the plurality of input channels.

1 7. (Currently Amended) The security system of claim 5, said multichannel
2 image processor further comprising a wireless transmitter [[being]] connected [[with]] to

3 said main controller[[,]] for wirelessly transmitting and receiving data to and from
4 apparatuses connected to the plurality of input channels.

Claim 8. (Canceled)

1 9. (Currently Amended) The security system of claim [[8]] 1, the plurality of
2 input channels receiving the image signals from a plurality of cameras, the abnormality
3 signal corresponding to at least one selected camera selected from among the plurality of
4 cameras, [[the]] said at least one selected camera being in a region of said alarm sensor.

1 10. (Currently Amended) The security system of claim 9, the multichannel image
2 driver recording and displaying image signals received from [[the]] said at least one
3 selected camera for a predetermined time when the abnormality signal is transmitted.

1 11. (Currently Amended) The security system of claim 1, ~~having~~ further
2 comprising at least one photographing device connected [[with]] to the plurality of input
3 channels, [[the]] said at least one photographing device having a photograph direction
4 which is changed in accordance with a control signal;

5 the multichannel image driver having basic photograph keys disposed on [[the]]
6 said at least one manipulation key window ~~to manipulate~~ for manipulating functions
7 supported by [[the]] said at least one photographing device, and controlling [[the]] said at

8 least one photographing device through said multichannel image processor in accordance
9 with [[the]] manipulation of the basic photograph keys.

1 12. (Original) The security system of claim 11, the basic photograph keys
2 including a focus adjust key, a zoom in/out adjust key, and a photograph direction
3 manipulation key.

1 13. (Currently Amended) [[The]] A security system of claim 12, comprising:
2 a multichannel image processor for selectively receiving image signals transmitted
3 through a plurality of input channels, and for outputting the image signals; and
4 a computer connected to said multichannel image processor through a
5 communication interface, said computer having a multichannel image driver, said
6 computer inputting the image signals outputted from said multichannel image processor;
7 the multichannel image driver controlling a selection of at least one of the input
8 channels in accordance with a selected set-up mode, supplying a main image display
9 window displaying the inputted image signals to a main frame of a display device,
10 supplying at least one manipulation key window displaying keys to the main frame of the
11 display device, processing in accordance with the selected set-up mode, performing at
12 least one of displaying the inputted image signals through the display device in
13 accordance with the selected set-up mode and recording the inputted image signals in a
14 memory in accordance with the selected set-up mode, the displayed keys being used for

15 selecting the selected set-up mode and other modes, said main image display window and
16 said at least one manipulation key window being integrally displayed on the main frame
17 of the display device;

18 said multichannel image driver having a [[the]] photograph direction manipulation
19 key [[being]] displayed as a mark having a predetermined shape on an initial point in a
20 direction display window displaying direction guide information guiding a photograph
21 adjust direction when the photograph direction manipulation key is not selected; and

22 [[the]] said multichannel image driver displaying the mark after moving the mark
23 in the direction display window in accordance with a dragging direction of a computer
24 mouse having a button pressed to select the mark, outputting a rotation control signal
25 through said multichannel image processor to [[the]] said at least one photographing
26 device to rotate [[the]] said at least one photographing device according to the moving of
27 the mark, and showing the mark returning to the initial point when the pressed computer
28 mouse button is released.

1 14. (Currently Amended) [[The]] A security system of claim 11, comprising:
2 a multichannel image processor for selectively receiving image signals transmitted
3 through a plurality of input channels, and for outputting the image signals; and
4 a computer connected to said multichannel image processor through a
5 communication interface, said computer having a multichannel image driver, said
6 computer inputting the image signals outputted from said multichannel image processor;

7 the multichannel image driver controlling a selection of at least one of the input
8 channels in accordance with a selected set-up mode, supplying a main image display
9 window displaying the inputted image signals to a main frame of a display device,
10 supplying at least one manipulation key window displaying keys to the main frame of the
11 display device, processing in accordance with the selected set-up mode, performing at
12 least one of displaying the inputted image signals through the display device in
13 accordance with the selected set-up mode and recording the inputted image signals in a
14 memory in accordance with the selected set-up mode, the displayed keys being used for
15 selecting the selected set-up mode and other modes, said main image display window and
16 said at least one manipulation key window being integrally displayed on the main frame
17 of the display device;

18 the multichannel image driver having a next key, the next key being selected to
19 display a succeeding frame, and at least one detailed photograph key for adjusting and
20 setting up a detailed function including a photographing pattern of [[the]] at least one
21 photographing device, [[the]] said at least one detailed photograph key being displayed in
22 [[the]] said at least one manipulation key window;

23 the multichannel image driver loading and displaying the succeeding frame on the
24 display device and processing a function corresponding to a selected key from among
25 [[the]] said at least one detailed photograph key[[,]] when the next key is selected.

1 15. (Currently Amended) The security system of claim 14, [[the]] said at least

2 one detailed photograph key including menu keys for selecting and setting up an
3 identifier for [[the]] said at least one photographing device, a white balance, a shutter
4 speed, and motion detection.

1 16. (Currently Amended) The security system of claim 14, [[the]] said at least
2 one detailed photograph key including a preset key for selecting a preset mode, [[the]]
3 said at least one photographing device operating in the preset mode in accordance with
4 preset zoom set-up information for a region corresponding to an ordered number selected
5 from among ordered numbers of the preset zoom set-up information, the preset zoom set-
6 up information being classified selectively by assigning respective ~~ordered numbers~~
7 ordered numbers and corresponding zoom set-up information to respective detailed
8 regions according to an azimuth angle, [[the]] said at least one detailed photograph key
9 including a manipulation pattern operation key for operating [[the]] said at least one
10 photographing device in accordance with stored information about manipulation of
11 [[the]] a photograph direction manipulation key, [[the]] said at least one detailed
12 photograph key including a scan key for operating [[the]] said at least one photographing
13 device to sequentially photograph in accordance with the ordered numbers of the preset
14 zoom set-up information.

1 17. (Currently Amended) The security system of claim 16, [[the]] said at least
2 one detailed photograph key including an auto pan key for driving a pan within a set-up

3 pan angle, and including a block set-up key for selecting a region viewed by [[the]] said
4 at least one photographic device, the region being selected by appointing a block for the
5 region in the image display window.

1 18. (Original) The security system of claim 17, movement being detected in
2 the selected region.

1 19. (Currently Amended) The security system of claim 1, ~~including~~ further
2 comprising a memory capacity display window disposed at a side of the main frame to
3 display a memory capacity, the multichannel image driver calculating remaining memory
4 capacity of said computer and displaying the remaining memory capacity through the
5 memory capacity display window.

1 20. (Currently Amended) The security system of claim 1, [[the]] said at least one
2 manipulation key window including a system set-up key, the multichannel image driver
3 loading a set-up module window supporting the set-up mode when the system set-up key
4 is selected, the set-up module window including a window for selecting a directory for
5 storing the received image signals in a memory of said computer and including an alarm
6 capacity selection window for selecting a remaining capacity alarm target value to
7 generate an alarm signal when a remaining memory capacity of the memory reaches the
8 selected value.

1 21. (Currently Amended) The security system of claim 1, the main frame
2 including a separation key, the separation key being selected to load a separated image
3 window displaying a transmitted image separated from the main image display window,
4 the multichannel image driver displaying the separated image window by loading a
5 separated image window when the separation key is selected, the multichannel image
6 driver adjusting a size of the separated image window and ~~[[the]]~~ an image corresponding
7 to the transmitted image when a signal is received from an input device to manipulate the
8 size of the separated image window.

1 22. (Currently Amended) The security system of claim 1, said computer
2 including ~~the multichannel image driver and~~ a windows-based operating system
3 supporting multi-tasking for operating an application program stored in a memory, the
4 operation of the multichannel image driver being supported by the windows-based
5 operating system.

1 23. (Currently Amended) A multichannel image processor, comprising:
2 a plurality of input channels for receiving image signals transmitted from a
3 plurality of cameras;
4 a plurality of memories for storing the image signals received by said plurality of
5 input channels;

6 a memory controller for selectively outputting the image signals stored in said
7 plurality of memories[[,]] in accordance with a control signal;

8 a coding unit for coding signals ~~output~~ outputted from said plurality of memories,
9 and for transmitting the coded signals through an image output terminal for a computer;
10 [[and]]

11 a main controller for controlling said memory controller in accordance with the
12 control signal, the control signal being transmitted from the computer through a computer
13 data communication terminal; and

14 an alarm sensor for sensing an abnormality of a selected object, the object being
15 selected to be watched;

16 said main controller transmitting first abnormality signal data through the
17 computer data communication terminal and said main controller operating an alarm
18 channel selection mode corresponding to a generation of the abnormality signal in
19 accordance with a reply control signal received through the computer data
20 communication terminal in response to the first abnormality signal data when the
21 abnormality signal is transmitted from said alarm sensor.

1 24. (Currently Amended) The multichannel image processor of claim 23, further
2 comprising:

3 a plurality of analog-to-digital converters, each being ~~respectively~~ disposed
4 between [[each]] a respective one of said plurality of input channels and [[each]] a

5 respective one of said plurality of memories to convert the received image signals to
6 digital signals.

7
1 25. (Currently Amended) The multichannel image processor of claim 24, further
2 comprising:

3 a multiplexer for multiplexing and outputting the image signals received by said
4 plurality of input channels through a terminal for an external display device, the terminal
5 for the external display device being distinguishable from the computer data
6 communication terminal.

1 26. (Currently Amended) The multichannel image processor of claim 24, further
2 comprising:

3 an RS-232 interface module ~~[[being]]~~ disposed between the computer data
4 communication terminal and said main controller to ~~communicate~~ carry out data
5 communication with the computer.

1 27. (Currently Amended) The multichannel image processor of claim 26, further
2 comprising:

3 an RS-485 interface module ~~[[being]]~~ connected between said main controller and
4 a terminal for camera communication ~~to communicate~~ for carrying out data
5 communication with at least one of the plurality of cameras ~~connected with said plurality~~

6 ~~of input channels.~~

1 28. (Currently Amended) The multichannel image processor of claim 26, further
2 comprising:

3 a wireless transmitter ~~[[being]]~~ connected ~~[[with]]~~ to said main controller ~~[[to]]~~
4 for wirelessly ~~communicate data~~ communicating with at least one of the plurality of
5 cameras ~~connected with said plurality of input channels.~~

Claims 29-30. (Canceled)

1 31. (Currently Amended) A computer storage medium having stored thereon a
2 set of instructions for implementing a method, said set of instructions comprising at least
3 ~~one or more instructions~~ instruction for:

4 selectively receiving image signals transmitted through a plurality of input
5 channels and outputting the image signals; and

6 controlling a selection of at least one of the input channels in accordance with a
7 selected set-up mode, displaying the outputted image signals in a main image display
8 window of a display device of a computer in accordance with the selected set-up mode,
9 displaying signals stored in a memory, supplying at least one manipulation key window
10 displaying keys for selecting the set-up mode and other modes, and controlling said
11 selective receiving of the image signals in accordance with the selected set-up mode, the

12 main image display window and the manipulation key window being integrally displayed
13 on a main frame of the display device;

14 said set of instructions further comprising at least one instruction for:

15 displaying a photograph direction manipulation key as a mark having a
16 predetermined shape on an initial point in a direction display window displaying
17 direction guide information guiding a photograph adjust direction when the photograph
18 direction manipulation key is not selected; and

19 displaying the mark after moving the mark in the direction display window
20 in accordance with a dragging direction of a computer mouse having a clicked button
21 pressed to select the mark, outputting a rotation control signal to said at least one
22 photographing device to rotate said at least one photographing device according to the
23 moving direction, and showing the mark returning to the initial point when the computer
24 mouse clicked button is released.

1 32. (Currently Amended) The computer storage medium of claim 31, said set of
2 instructions further comprising at least one ~~or more instructions~~ instruction for:

3 transmitting the image signals from at least one photographing device to the
4 plurality of input channels, ~~[[the]]~~ said at least one photographing device having a
5 photograph direction changed in accordance with a control signal, the keys displayed by
6 ~~[[the]]~~ said at least one manipulation key window including basic photograph keys for
7 manipulation functions supported by ~~[[the]]~~ said at least one photographing device; and

8 controlling ~~[[the]]~~ said at least one photographing device in accordance with the
9 manipulation of the basic photograph keys.

1 33. (Currently Amended) The computer storage medium of claim 32, the basic
2 photograph keys including a focus adjust key, a zoom adjust key, and ~~[[a]]~~ the photograph
3 direction manipulation key.

Claim 34. (Canceled)

1 35. (Currently Amended) ~~[[The]]~~ A computer storage medium ~~of instructions of~~
2 ~~claim 32,~~ having stored thereon a set of instructions for implementing a method, said set
3 of instructions comprising at least one instruction for:

4 selectively receiving image signals transmitted through a plurality of input
5 channels and outputting the image signals; and

6 controlling a selection of at least one of the input channels in accordance with a
7 selected set-up mode, displaying the outputted image signals in a main image display
8 window of a display device of a computer in accordance with the selected set-up mode,
9 displaying signals stored in a memory, supplying at least one manipulation key window
10 displaying keys for selecting the set-up mode and other modes, and controlling said
11 selective receiving of the image signals in accordance with the selected set-up mode, the
12 main image display window and the manipulation key window being integrally displayed

13 on a main frame of the display device;

14 said set of instructions further comprising at least one ~~or more instructions~~
15 instruction for:

16 displaying a next key, the next key being selected to display a succeeding
17 frame and at least one detailed photograph key for adjusting and setting up a detailed
18 function including a photographing pattern of ~~[[the]]~~ said at least one photographing
19 device, ~~[[the]]~~ said at least one detailed photograph key being displayed in ~~[[the]]~~ said at
20 least one manipulation key window, and

21 when the next key is selected, loading and displaying the succeeding frame
22 on the display device and processing a function corresponding to a first detailed key
23 selected from among ~~[[the]]~~ said at least one detailed photograph key.

1 36. (Currently Amended) The computer storage medium of claim 35, ~~[[the]]~~ said
2 at least one detailed photograph key including menu keys for selecting and setting up an
3 identifier for ~~[[the]]~~ said at least one photographing device, a white balance, a setter
4 speed, and motion detection.

1 37. (Currently Amended) The computer storage medium of claim 35, ~~[[the]]~~ said
2 at least one detailed photograph key including a preset key for selecting a preset mode,
3 ~~[[the]]~~ said at least one photographing device operating in the preset mode in accordance
4 with preset zoom set-up information for a region corresponding to an ordered number

5 selected from among ordered numbers of the preset zoom set-up information, the preset
6 zoom set-up information being classified selectively by assigning respective ordered
7 numbers and corresponding zoom set-up information to respective detailed regions
8 according to an azimuth angle, [[the]] said at least one detailed photograph key including
9 a manipulation pattern operation key for operating [[the]] said at least one photographing
10 device in accordance with stored information about manipulation of the photograph
11 direction manipulation key, [[the]] said at least one detailed photograph key including a
12 scan key for operating [[the]] said at least one photographing device to sequentially
13 photograph in accordance with the ordered numbers of the preset zoom set-up
14 information.

1 38. (Currently Amended) The computer storage medium of claim 37, [[the]] said
2 at least one detailed photograph key including an auto pan key for driving a pan within a
3 set-up pan angle, and including a block set-up key for selecting a region viewed by [[the]]
4 said at least one photographic device, the region being selected by appointing a block for
5 the region in the image display window.